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30 3Wat WATER SUPPLY OUTLOOK
EAR IDAHO

U. S. DEPARTMENT OF AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

ion JONE 1, 1713

JUNE 1, 1975

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Cabins near Sacajawea Snow Course in Bridger Mountains, Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK FOR IDAHO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SOIL CONSERVATION SERVICE SNOW SURVEY SECTION ROOM 345, 304 N. 8th. ST. BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO







JUNE 1, 1975

SNOW SURVEYS, SUPPLEMENTAL MEASUREMENTS AND CORRECTIONS

The outlook for water supply for 1975 is good to excellent throughout Idaho with seasonal streamflow forecasts above normal on all major streams.

Exceptionally cool and wet weather which began in mid-March continued through April and May. The cool temperatures have delayed the snowmelt well beyond the normal snowmelt season, particularly at the higher elevations. Snow surveys near June 1 indicate record to near record snowwater remaining at high elevations throughout the state.

Snowmelt from low and middle elevations has produced minor flooding in northern and eastern Idaho. Alternating warm and cool periods have resulted in fluctuating high water periods, keeping flooding below the very damaging level. A flood potential still exists in the heavy snow-pack if we experience a prolonged hot spell or a combination of warm temperatures and rain.

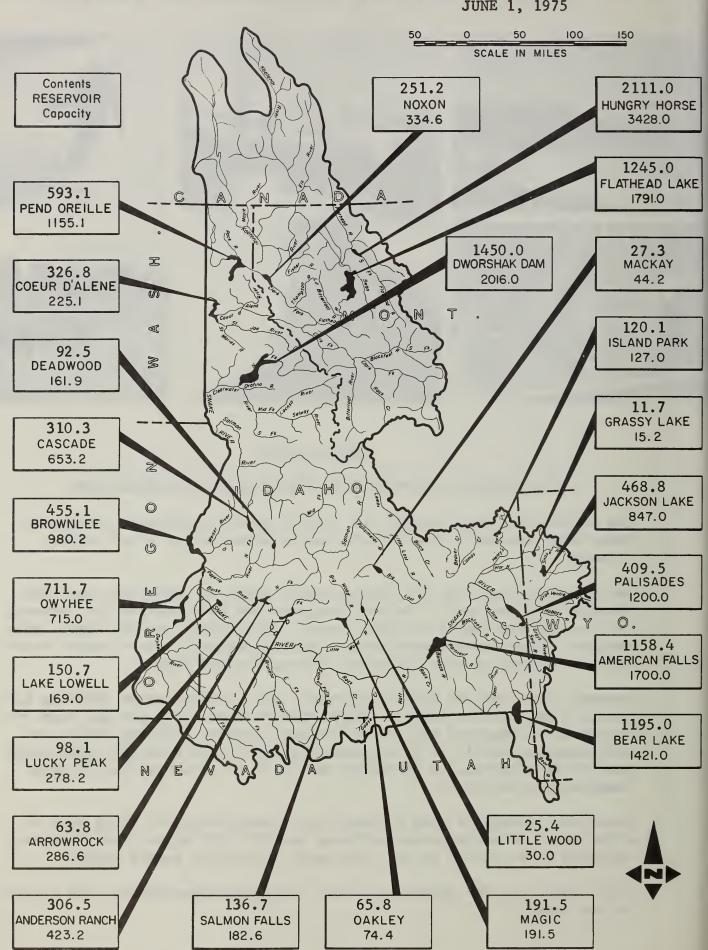
Reservoir storage is good to excellent, though many are being kept at a low level in anticipation of heavy runoff. All major reservoirs are expected to be filled by the time major irrigation demand begins.

This report carries supplemental and corrected measurements made earlier in the season.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1975



THIS YEAR PAST RECORD

DRAINAGE BASIN and/or SNOW COURSE

Date of Survey

Date of Survey

Date (Inches)

Water Content (Inches)

Last Year Average 6

JUNE 1, 1975 MEASUREMENTS Aspen Grove 6600 5/30 17 7.2 7500 5/28 88 41.4 30.9 Atlanta Summit 6660 5/29 18 9.1 Badger Gulch __ Т 15.2 Bear Canyon 7920 5/29 37 Big Creek Summit 6600 5/**3**0 73 39.8 47.4 3 6800 5/30 1.4 Birch Creek 6775 5/30 20 10.3 Blue Ridge ----5/29 28.0 7500 58 Bostetter Ranger Station __ 5 2.8 0.0 Boulder Creek 5500 6/2 5/28 108 52.8 62.0 Brundage Mountain 7560 Coolwater Mountain 6200 5/30 83 36.2 22.8* --Copper Basin 7650 5/29 15 5.5 ----39.6* Crater Meadows 6100 5/30 95 46.8 0.0 Crawford Ranger Station 4800 5/30 0 0.0 28.6 Darby Canyon 8250 5/30 65 19.2 - -23.6 20.0* Elk Butte 5550 5/29 54 Fish Lake Airstrip 5000 5/30 76 34.8 25.6* 25.2 Fishpole Lake 9350 5/29 61 Freds Mountain 8000 5/30 67 28.1 21.3 15.8 Galena 7300 5/28 34 3.4 Galena Summit 8795 5/28 77 33.9 32.0 Garns Mountain 8300 5/30 102 48.0 30.8 Goat Lake 6600 5/30 117 51.8 49.0* Granite Peak 6000 5/29 99 42.1 44.8 --Hemlock Butte 47.2 43.2* 5500 5/**3**0 103 Indian Meadows 8200 5/30 100 47.2 42.7 --Jackpine 7500 5/30 56 27.6 14.3 --7000 5/28 73 35.6 26.8 Jackson Peak --Lake Fork 6000 6/1 11 5.5 3.0 _ -28.8 Lookout 5250 5/30 54 34.2 83.6 Lost Lake 6000 5/29 125 58.2 Lost-Wood Divide 7900 5/29 47 21.4 --Mascot Mine 7900 5/29 28 10.9 T McRenold Reservoir 6800 5/30 47 20.9 0.0 43.4 Medicine Ridge 6150 5/29 100 52.6 --9.2 7500 5/30 21 0.0 -Miles Creek --65 Moores Creek Summit 6100 5/28 33.0 26.7 8.1 22 Mud Creek 7150 5/30 10.3 --53.6 44.0* 7800 5/30 134 Orogrande Mountain Pine Creek Pass 5/30 20 9.3 0.0 6750 Secesh Summit 6600 5/30 67 36.2 46.9 South Mountain 6340 5/27 17 8.5 _ _ --35.6 5/30 37.5 Squaw Meadow 5800 56 5/30 14 6.4 0.0 State Line 6400 T Stickney Mill 7500 5/29 T Trinity Mountain 7780 5/28 99 49.6 39.6 --

5/28

8900

Vienna Mine

*June 12, 1974 Measurement.

90

45.0

47.5

SUPPLEMENTAL MEASUREMENTS

JANUARY 15, 1975						
Atlanta Summit	7500	1/17	57	15.6		
Mount Baldy	9000	1/14	3 8	8.4	16.4	
Pierce Ranger Station	3170	1/15	40	9.3	8.3	
FEBRUARY 15, 1975						
Atlanta Summit	7500	2/18	94	27.2		
Bad Bear	5500	2/14	42	13.2		
Bogus Basin	6120	2/13	72	20.8		
Bogus Basin Road	53 60	2/13	33	10.4		
Galena	73 00	2/14	77	17.8		
Galena Summit	8795	2/14	89	21.2		
Jackson Peak	7000	2/18	85	25.0		
Moores Creek Summit	6100	2/14	101	27.8		
Mount Baldy	9000	2/14	74	16.1	22.0	16.4
Pierce Ranger Station	3170	2/14	53	13.7		
Trinity Mountain	77 80	2/18	106	34.5		
Vienna Mine	8900	2/18	94	28.4		
,		_,				
MARCH 15, 1975						
Ahana Busha	/ 100	2/10	0.0	20.0	21 /	
Above Burke	4100	3/19	82	29.9	31.4	
Atlanta Summit	7500	3/14	88	32.2		
Bogus Basin	6120	3/13	70	25.5	31.5	
Galena	7300	3/14	57	18.9	33.0	
Galena Summit	8795	3/14	72	23.7	39.2	
Jackson Peak	7000	3/14	79	28.8		
Lookout	5250	3/14	100	3 6.5	48.2	
Moores Creek Summit	6100	3/13	87	32. 8	43.6	
Mount Baldy	9000	3/14	61	17.7	3 0.0	19.7
Pierce Ranger Station	3170	3/14	40	14.6	17.8	11.1
Prairie	4900	3/15	20	6.5	8.6	
Sherwin	32 00	3/13	50.	18.6	22.7	14.2
Trinity Mountain	7780	3/14	103	41.3		
Vienna Mine	8900	3/14	89	33.3		
APRIL 15, 1975						
Aspen Grove	6600	4/14	51	16.2		
Atlanta Summit	7 500	4/18	123	45.9	54.2	
Bad Bear	5500	4/15	52	18.5	19.5	
Birch Creek	6800	4/14	52	19.1		
Blue Ridge	6800	4/14	65	24.8		
Bogus Basin	6120	4/11	101	36.9	34.2	
Bogus Basin Road	5360	4/11	36	12.5		
20000 Daorii Moad	55 00	i/ T.	30	12.5		

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE	DRAINAGE BASIN and/or SNOW COURSE		Snow Depth	Water Content	Water Content (inches)	
NAME	Elevation	Date of Survey	(Inches)	(Inches)	Last Year	Average 6

CORRECTIONS TO PREVIOUSLY PUBLISHED 1975 DATA

JANUARY 1, 1975						
Copes Camp (A) Hall Creek (A)	7500 7560	1/2 1/2	12 7	1.8 1.0	4.5 3.4	
Schwartz Lake (A)	8500	1/2	21			
Wilson Creek (A)	7500	12/29		6.2	6.5	
	, • • •	,,	_,			
FEBRUARY 1, 1975						
Hemlock Butte	5500	1/30	126	33.4	53.0	32.8*
Red Point (A)	7940	2/5	13	4.0	3.7	
South Mountain	6 3 40	2/6	31	10.0	14.1	9.0
Wilson Creek (A)	7500	2/5	27	8.6	8.9	
VIDOR 1 1075						
MARCH 1, 1975						
Bennett Mountain	6650	3/3	54	17.0	22.6	15.5*
Mount Baldy	9000	2/28	6 3	17.0	26.8	18.0
South Mountain	6 3 40	2/25	45	14.0	16.2	11.3
ADD TT 1 1075						
APRIL 1, 1975						
Lower Home Canyon	7500	4/1	56	16.6	14.6	
South Mountain	6 34 0	3/26	6 3	20.5	17.6	12.4

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U.S. Army Engineers
- U.S. Department of Agriculture Forest Service Agriculture Research Service
- U.S. Department of Commerce NOAA, National Weather Service
- U.S. Department of the Interior
 Bonneville Power Administration
 Bureau of Reclamation
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company Washington Water Power Company Idaho Power Company Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 345

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COOPERATIVE SNOW SURVEYS

domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry "The Conservation of Water begins with the Snow Survey"

USDA NATIONAL AGRICULTURAL CURRENT SERIAL RECORD BELTSVILLE, MARYLAND